

Incremental Rotary Encoders

Rotary Magnetic Incremental Encoder

Encoders ELTRA are designed in order to control the position and the angular speed of moving mechanical axels.

Rotary Incremental Eltra encoder provides excellent speed and distance feedback and. Involving of few sensors makes the system be both simple and inexpensive



An incremental encoder ELTRA is limited by only providing change information, so the encoder requires a reference device to calculate motion.

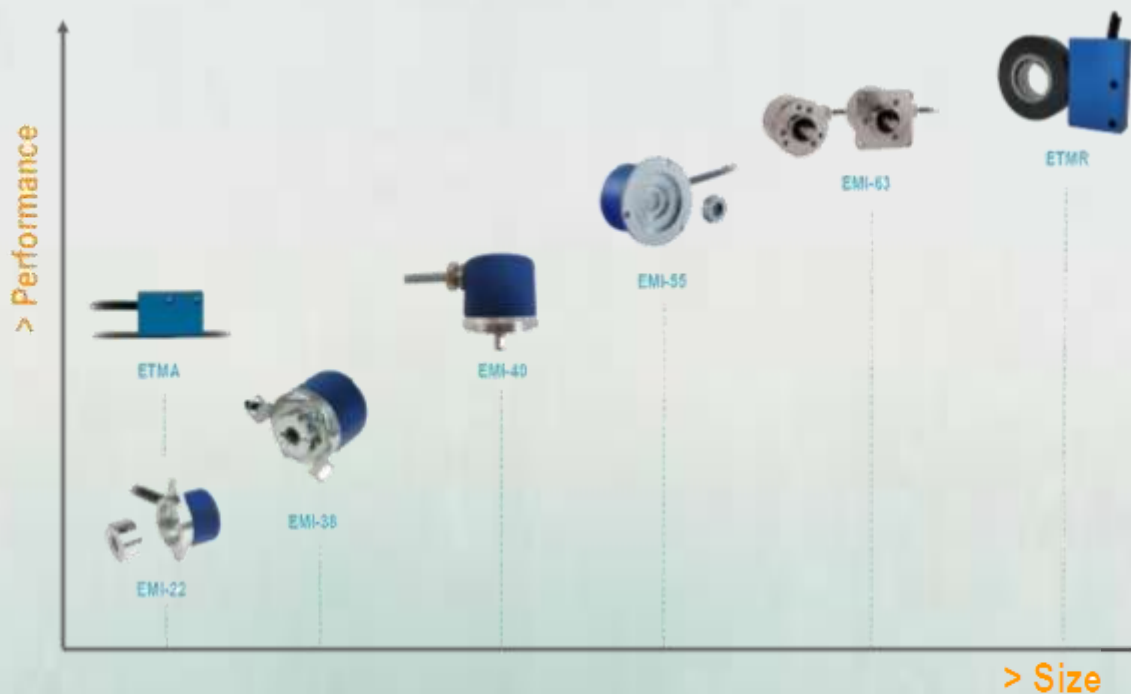
Main application field of incremental encoders are: textile machines , wood-working machinery, CNC machinery and etc.

Rotary magnetic encoder includes magnetic sensor and rotating actuator with a magnet. The magnetic field variations is converted into electrical signals.

Magnetic Incremental Eltra Encoder

The main series:

- EMI 22 A
- EMI 30 M
- EMI 38 F-G
- EMI 40 A
- EMI 55 A-AY
- EMI 63 A-D
- ETMR



Eltra Magnetic Encoders are produced with blind or through hollow and solid shaft. They are intended for general factory applications, for stepper motors and for small size motors.

Key features:

- Shaft/bor diameter: 6 - 10 mm
- No contact magnetic technology
- Power supply range: 5 V DC, 8 - 24 V DC, 5 - 28 V DC, 5 - 30 V DC
- Resolution: 1 - 4096 ppr.
- Operating temperature: -40 .. +125 °C
- Rotation speed: 6000, 8000 and 10000 rpm.
- External diameter: 22 - 63,5 mm
- Enclosure protection: IP54, IP67, IP66.
- Cable or connector output
- Shaft load type: axial or radial.



Mounting types:

- clamping flange;
- stator coupling;
- anti-rotation pin;
- fixing hole;
- synchronous flange;
- centering square flange;
- with star-ring;
- coupling flange.

Incremental encoder with special features:

Heavy duty encoders for harsh environment applications (marble, glass machines, washing systems etc) (EMI 38 F -G, EMI 40 A, EMI 63 A-D, ETMR)

With high temperature resistance (EMI 63 A-D)

Miniturized encoders for application in small devices (EMI 30 M)

Encoders with separated chambers and sturdy construction (EMI 38 F, EMI 63 D)

Magnetic Incremental Encoders

Series	Shaft type	key features							
		External diameter mm (max)	Shaft/bore diameter, mm (max)	Resolution (min) ppr	Resolution (max) ppr	Rotation speed (max) rpm	Output frequency (max)	Operating temperature (°C)	Enclosure rating (max)
EMI 22A	kit encoder	22	10	2	2048	1000	205 kHz	-40..+125	IP67
EMI 30M	kit encoder	53	10	1	90		15 kHz	-20..+100	IP54
EMI 38F	blind hollow shaft	39,5	10	2	2048	6000	205 kHz	-25..+100	IP66
EMI 38G	blind hollow shaft	39,5	10	2	2048	6000	205 kHz	-25..+100	IP66
EMI 40A	solid shaft	42	6	2	2048	6000	205 kHz	-25..+100	IP66
EMI 55A	kit encoder	55	10	2	2048	10000	205 kHz	-40..+125	IP67
EMI 55AY	kit encoder	55	10	2	2048	10000	205 kHz	-40..+125	IP67
EMI 63A	solid shaft	63,5	10	2	2048	6000	205 kHz	-25..+100	IP66
EMI 63D	solid shaft	63,5	10	2	2048	6000	205 kHz	-25..+100	IP66
ETMR	kit encoder, through hollow shaft		28	64	4096	8000	350 kHz	-20..+85	IP67

Series	special features					Mounting Type	Type of motor	
	Heavy Duty (with high mechanical resistance)	high temperature resistance	small dimensions	miniaturized	Separated chambers		for stepper motors	for small size AC/DC motors
EMI 22A			+			clamping flange		
EMI 30M				+			+	+
EMI 38F	+		+		+	stator coupling		
EMI 38G	+		+			anti-rotation pin		
EMI 40A	+		+					
EMI 55A			+			Fixing hole		
EMI 55AY						Fixing hole		
EMI 63A	+	+				synchronous flange		
EMI 63D	+	+			+	centering square flange		
ETMR	+		+			with star-ring		

Series	Output type		Power supply				Type of shaft load	
	cable output type	connector output type	5 V DC	8...24 V DC	5...28 V DC	5...30 V DC	Axial shaft loads	Radial shaft loads
EMI 22A	+		+				+	+
EMI 30M	+		+			+		+
EMI 38F	+		+	+	+			+
EMI 38G	+		+	+	+			+
EMI 40A	+		+	+	+		+	+
EMI 55A	+	+	+	+	+		+	+
EMI 55AY	+	+	+	+	+			
EMI 63A	+	+	+	+	+		+	+
EMI 63D	+	+	+	+	+		+	+
ETMR	+		+	+	+			+

Eltra Incremental Magnetic Encoders

Ordering code	Series	Ordering code	Series
EMI22A100S5P10S10PR1	EMI 22 A	EMI38F1024Z5/28P10X6PR.1029	EMI 38 F-G
EMI22A1024S5P10S10PR	EMI 22 A	EMI38F1024Z5/28P10X6PR3	EMI 38 F-G
EMI22A1024S5P6S10PR	EMI 22 A	EMI38F1024Z5/28P10X6PR3.934	EMI 38 F-G
EMI22A1024Z5L10S10PR	EMI 22 A	EMI38F1024Z5/28P8X6PR	EMI 38 F-G
EMI22A1024Z5L6S10PR	EMI 22 A	EMI38F1024Z5L6S3PR.1049	EMI 38 F-G
EMI22A1024Z5P10S10PR	EMI 22 A	EMI38F1024Z5L8X6PR8	EMI 38 F-G
EMI22A10S5P6S10PR1	EMI 22 A	EMI38F1024Z8/24L10S3PR.037	EMI 38 F-G
EMI22A2048S5L8S10PR+V.1078	EMI 22 A	EMI38F1024Z8/24L10S3PR1-5.1014	EMI 38 F-G
EMI22A2048S5P8S10PA2	EMI 22 A	EMI38F200S5/28P5S3PR2	EMI 38 F-G
EMI22A2048S5P8S10PR	EMI 22 A	EMI38F200Z5/28P8X6PR	EMI 38 F-G
EMI22A2048Z5L10S10PR	EMI 22 A	EMI38F2048S5/28P6X6PR1-5	EMI 38 F-G
EMI22A2048Z5L6S10PR	EMI 22 A	EMI38F2048S5L10X6PR	EMI 38 F-G
EMI22A2048Z5L6S10PR1	EMI 22 A	EMI38F2048Z5L10S3PR1-5	EMI 38 F-G
EMI22A2048Z5L6S10PR10	EMI 22 A	EMI38F2048Z8/24L10X3PR	EMI 38 F-G
EMI22A2048Z5L8S10PR	EMI 22 A	EMI38F250S5/28P10S3PR2	EMI 38 F-G
EMI22A2048Z5P8S10PR	EMI 22 A	EMI38F250S5/28P10S3PR5	EMI 38 F-G
EMI22A2048Z5P9S10PR	EMI 22 A	EMI38F250S8/24P6S3PR.847+1088	EMI 38 F-G
EMI22A2048Z8/24L10S10PR	EMI 22 A	EMI38F250S8/24PC10S3PR2	EMI 38 F-G
EMI22A40S5L10S10PR1	EMI 22 A	EMI38F250S8/24PC10S3PR5	EMI 38 F-G
EMI22A500S5P6S10PR	EMI 22 A	EMI38F256Z5/28P10S3PR+M	EMI 38 F-G
EMI22A500Z5P10S10PR	EMI 22 A	EMI38F256Z5L8X6PR8	EMI 38 F-G
EMI22A512Z5L6S10PR	EMI 22 A	EMI38F500S5/28P10X3PR	EMI 38 F-G
EMI22AY500S5L6S10PR1,5	EMI 22 A	EMI38F500Z5/28P10S3PR	EMI 38 F-G
EMI30M50S5/30P8XXPR	EMI 30 M	EMI38F500Z5/28P10X6PR.1029	EMI 38 F-G
EMI30M50S5N6XXPR	EMI 30 M	EMI38F500Z5/28P10X6PR4	EMI 38 F-G
EMI30M50Z5/30L10XXPR	EMI 30 M	EMI38F500Z5/28P6X6PR0-2+V	EMI 38 F-G
EMI30M50Z5N6XXPR	EMI 30 M	EMI38F500Z5/28P6X6PR2	EMI 38 F-G
EMI30MS50Z5N6XXPR	EMI 30 M	EMI38F500Z5L10S3PR.1049	EMI 38 F-G
EMI38F100S5/28P6X6PR	EMI 38 F-G	EMI38F500Z5L10S3PR1-5	EMI 38 F-G
EMI38F100Z8/24PC8X6PR	EMI 38 F-G	EMI38F500Z5L10S3PR3.1049	EMI 38 F-G
EMI38F1024S5/28P10X6PR2	EMI 38 F-G	EMI38F500Z5L10X6PR.1029	EMI 38 F-G
EMI38F1024S5/28P10X6PR3.934	EMI 38 F-G	EMI40A100S5/28P6S3PR2	EMI 40
EMI38F1024S5/28P10X6PR5	EMI 38 F-G	EMI40A1024S5/28P6S3PR5.971	EMI 40
EMI38F1024S5/28P10X6PR5.934	EMI 38 F-G	EMI40A1024Z8/24P6S3PR2	EMI 40
EMI38F1024S5/28P6X6PR	EMI 38 F-G	EMI40A128S5/28P6S3PR7.128	EMI 40
EMI38F1024S5L10X6PR	EMI 38 F-G	EMI40A2048S5P6S3PR.1043	EMI 40
EMI38F1024S8/24L10X6PR15	EMI 38 F-G	EMI40A500S5/28P6S3PSR2,5	EMI 40
EMI38F1024Z5/28L8X6PR	EMI 38 F-G	EMI40B2048S8/24P6S3PR3.1043	EMI 40
EMI38F1024Z5/28L8X6PR10	EMI 38 F-G	EMI55A100S5/28P10X10M12R	EMI 55 A / AY

Ordering code	Series	Ordering code	Series
EMI55A100S8/24P10X10PR	EMI 55 A / AY	EMI55AY500S8/24P10S10M12R	EMI 55 A / AY
EMI55A100Z5L8X10PR	EMI 55 A / AY	EMI63A100S8/24L10S3PR	EMI 63 A / D
EMI55A1024S5/28L10S10PR2	EMI 55 A / AY	EMI63D100Z5/28P8S3M12R	EMI 63 A / D
EMI55A1024S5/28L6S10PR	EMI 55 A / AY	EMI63D100Z5/28P8S3M12R.162	EMI 63 A / D
EMI55A1024S5/28L8S10PR20	EMI 55 A / AY	EMI63D2048Z5/28P6S3PR8	EMI 63 A / D
EMI55A1024S5/28P8X10PR	EMI 55 A / AY	EMI63D250Z8/24P10S3PR	EMI 63 A / D
EMI55A1024S5L10X10PR	EMI 55 A / AY	EMI63D25Z5/28P10S3M12R	EMI 63 A / D
EMI55A1024Z5/28L10S10PR	EMI 55 A / AY	EMI63DX500S8/24P10S3PR0,2+M12	EMI 63 A / D
EMI55A1024Z5/28L6X10PR	EMI 55 A / AY	ETMR1024S5/28L28S8PR	ETMR
EMI55A1024Z5/28L8X10PR	EMI 55 A / AY	ETMR1024S5/28P9S8PR3,5	ETMR
EMI55A1024Z5/28P6S10PA	EMI 55 A / AY	ETMR1024S5L14S8PR6.795	ETMR
EMI55A1024Z5/28P6X10PR	EMI 55 A / AY	ETMR1024S5P14S8PR6.1026	ETMR
EMI55A1024Z5/28P8X10M12R	EMI 55 A / AY	ETMR1024S5P19S8PR	ETMR
EMI55A1024Z5/28P8X10PR	EMI 55 A / AY	ETMR1024S8/24L28S8PR	ETMR
EMI55A1024Z5P6X10PR	EMI 55 A / AY	ETMR1024S8/24L38S8PR0,5+M.035+870+XXX	ETMR
EMI55A1024Z8/24P10X10M12R	EMI 55 A / AY	ETMR1024S8/24P19S8PR	ETMR
EMI55A125S5/28P8X10M12A	EMI 55 A / AY	ETMR1024S8/24P24S8PR	ETMR
EMI55A125S5/28P8X10M12R	EMI 55 A / AY	ETMR1024S8/24P28S8PR10	ETMR
EMI55A125S5/28P8X10PR	EMI 55 A / AY	ETMR128S5/28P28S8PR	ETMR
EMI55A125Z5/28P8X10M12R	EMI 55 A / AY	ETMR128S5/28P28S8PR2,5	ETMR
EMI55A125Z5/28P8X10PR	EMI 55 A / AY	ETMR128S5/28P28S8PR3	ETMR
EMI55A128S5/28P4S10PR2	EMI 55 A / AY	ETMR2048S5/28L24S8PR	ETMR
EMI55A200Z5/28P8X10PR	EMI 55 A / AY	ETMR2048S5L14S8MR0,5.445	ETMR
EMI55A2048S5/28P6X10PR	EMI 55 A / AY	ETMR2048S5L21S8PR.1064	ETMR
EMI55A2048Z5/28L10X10PR	EMI 55 A / AY	ETMR2048S5L21S8PR10.1064	ETMR
EMI55A2048Z5/28P10S10PR	EMI 55 A / AY	ETMR2048S5L21S8PR5.1064	ETMR
EMI55A2048Z5/28P6S10M12R	EMI 55 A / AY	ETMR2048S5L28S8PR10.1064	ETMR
EMI55A2048Z5L6S10PR1-5	EMI 55 A / AY	ETMR2048S5L28S8PR2	ETMR
EMI55A2048Z5L8X10PR	EMI 55 A / AY	ETMR2048S5L28S8PR2,5	ETMR
EMI55A2048Z8/24L8X10PR	EMI 55 A / AY	ETMR2048S5L28S8PR5	ETMR
EMI55A20S5/28P10X10PR1-5	EMI 55 A / AY	ETMR2048S5L28S8PR5.1064	ETMR
EMI55A25Z5/28P8X10PR	EMI 55 A / AY	ETMR4096S5/28L10S8PR	ETMR
EMI55A50S5/28P8X10PR	EMI 55 A / AY	ETMR4096S5/28L14S8PR	ETMR
EMI55A512S5/28P6X10PA	EMI 55 A / AY	ETMR4096S5/28L28S8PR.1103-R.DESTRA	ETMR
EMI55A512S5/28P8X10PR	EMI 55 A / AY	ETMR4096S8/24L28S8PR.1103	ETMR
EMI55A512Z5/28P10X10PR.979	EMI 55 A / AY	ETMR4096S8/24P14S8PR	ETMR
EMI55A512Z5/28P8X10M12R	EMI 55 A / AY	ETMR512S5/28P14S8PR	ETMR
EMI55A512Z5/28P8X10PR	EMI 55 A / AY	ETMR512S5/28P19S8PR3	ETMR
EMI55A512Z5L10X10PR	EMI 55 A / AY	ETMR512S5/28P24S8PR	ETMR
EMI55A512Z5L8X10M12R	EMI 55 A / AY	ETMR512S5P14S8PR5.1026	ETMR
EMI55A512Z5L8X10PR	EMI 55 A / AY	ETMR512S5P14S8PR6.1026	ETMR
EMI55AY1024Z8/24L6S10PR5+M.037+076+162	EMI 55 A / AY	ETMR512S5P14S8PR6.795	ETMR
EMI55AY1024Z8/24L6S10PR5+M.076+162	EMI 55 A / AY		



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